



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101656,093
Source: 0148
Date Processed by STIC: 9-16-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER

10/656,093

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file Wrapped Aminos was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

3 Misaligned Amino Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules**, **each n or Xaa can only represent a single residue**. Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 Skipped Sequences (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 Skipped Sequences (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

9 Use of n's or Xaa's (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213> Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 07/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003
 TIME: 10:48:00

Input Set : A:\256-152div.txt
 Output Set: N:\CRF4\09162003\J656093.raw

3 <110> APPLICANT: YOUNG, ANDREW A.
 4 VINE, WILL
 5 BEELEY, NIGEL R.A.
 6 PRICKETT, KATHRYN S.
 8 <120> TITLE OF INVENTION: INOTROPIC AND DIURETIC EFFECTS OF GLP-1 AND GLP-1 AGONISTS
 10 <130> FILE REFERENCE: 256-152DIV US
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/656,093
 C--> 13 <141> CURRENT FILING DATE: 2003-09-05
 15 <160> NUMBER OF SEQ ID NOS: 75
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 39
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Heloderma horridum
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION: Exendin-3
 27 <400> SEQUENCE: 1
 28 His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 29 1 5 10 15
 31 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 32 20 25 30
 34 Ser Gly Ala Pro Pro Pro Ser
 35 35
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 39
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Heloderma suspectum
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Exendin-4
 46 <400> SEQUENCE: 2
 47 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
 48 1 5 10 15
 50 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
 51 20 25 30
 53 Ser Gly Ala Pro Pro Pro Ser
 54 35
 57 <210> SEQ ID NO: 3
 58 <211> LENGTH: 30
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Homo sapiens
 62 <220> FEATURE:
 63 <223> OTHER INFORMATION: GLP-1
 65 <400> SEQUENCE: 3

Does Not Comply
 Corrected Diskette Needed

P.4, 6

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,093
DATE: 09/16/2003
TIME: 10:48:00

Input Set : A:\256-152div.txt
Output Set: N:\CRF4\09162003\J656093.raw

66 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
67 1 5 10 15
69 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
70 20 25 30
73 <210> SEQ ID NO: 4
74 <211> LENGTH: 39
75 <212> TYPE: PRT
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
80 exendin agonist
82 <220> FEATURE:
83 <221> NAME/KEY: MOD_RES
84 <222> LOCATION: (1)
85 <223> OTHER INFORMATION: His, Arg or Tyr
87 <220> FEATURE:
88 <221> NAME/KEY: MOD_RES
89 <222> LOCATION: (2)
90 <223> OTHER INFORMATION: Ser, Gly, Ala or Thr
92 <220> FEATURE:
93 <221> NAME/KEY: MOD_RES
94 <222> LOCATION: (3)
95 <223> OTHER INFORMATION: Asp or Glu
97 <220> FEATURE:
98 <221> NAME/KEY: MOD_RES
99 <222> LOCATION: (5)
100 <223> OTHER INFORMATION: Ala or Thr
102 <220> FEATURE:
103 <221> NAME/KEY: MOD_RES
104 <222> LOCATION: (6)
105 <223> OTHER INFORMATION: Ala, Phe, Tyr or naphthylalanine
107 <220> FEATURE:
108 <221> NAME/KEY: MOD_RES
109 <222> LOCATION: (7)
110 <223> OTHER INFORMATION: Thr or Ser
112 <220> FEATURE:
113 <221> NAME/KEY: MOD_RES
114 <222> LOCATION: (8)
115 <223> OTHER INFORMATION: Ala, Ser or Thr
117 <220> FEATURE:
118 <221> NAME/KEY: MOD_RES
119 <222> LOCATION: (9)
120 <223> OTHER INFORMATION: Asp or Glu
122 <220> FEATURE:
123 <221> NAME/KEY: MOD_RES
124 <222> LOCATION: (10)
125 <223> OTHER INFORMATION: Ala, Leu, Ile, Val, pentylglycine or Met
127 <220> FEATURE:
128 <221> NAME/KEY: MOD_RES

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003
TIME: 10:48:00

Input Set : A:\256-152div.txt
Output Set: N:\CRF4\09162003\J656093.raw

129 <222> LOCATION: (11)
130 <223> OTHER INFORMATION: Ala or Ser
132 <220> FEATURE:
133 <221> NAME/KEY: MOD_RES
134 <222> LOCATION: (12)
135 <223> OTHER INFORMATION: Ala or Lys
137 <220> FEATURE:
138 <221> NAME/KEY: MOD_RES
139 <222> LOCATION: (13)
140 <223> OTHER INFORMATION: Ala or Gln
142 <220> FEATURE:
143 <221> NAME/KEY: MOD_RES
144 <222> LOCATION: (14)
145 <223> OTHER INFORMATION: Ala, Leu, Ile, pentylglycine, Val or Met
147 <220> FEATURE:
148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (15)...(17)
150 <223> OTHER INFORMATION: Ala or Glu
152 <220> FEATURE:
153 <221> NAME/KEY: MOD_RES
154 <222> LOCATION: (19)
155 <223> OTHER INFORMATION: Ala or Val
157 <220> FEATURE:
158 <221> NAME/KEY: MOD_RES
159 <222> LOCATION: (20)
160 <223> OTHER INFORMATION: Ala or Arg
162 <220> FEATURE:
163 <221> NAME/KEY: MOD_RES
164 <222> LOCATION: (21)
165 <223> OTHER INFORMATION: Ala or Leu
167 <220> FEATURE:
168 <221> NAME/KEY: MOD_RES
169 <222> LOCATION: (22)
170 <223> OTHER INFORMATION: Phe, Tyr or naphthylalanine
172 <220> FEATURE:
173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (23)
175 <223> OTHER INFORMATION: Ile, Val, Leu, pentylglycine, tert-butylglycine or Met
177 <220> FEATURE:
178 <221> NAME/KEY: MOD_RES
179 <222> LOCATION: (24)
180 <223> OTHER INFORMATION: Ala, Glu or Asp
182 <220> FEATURE:
183 <221> NAME/KEY: MOD_RES
184 <222> LOCATION: (25)
185 <223> OTHER INFORMATION: Ala, Trp, Phe, Tyr or naphthylalanine
187 <220> FEATURE:
188 <221> NAME/KEY: MOD_RES
189 <222> LOCATION: (26)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003
TIME: 10:48:00

Input Set : A:\256-152div.txt
Output Set: N:\CRF4\09162003\J656093.raw

190 <223> OTHER INFORMATION: Ala or Leu
 192 <220> FEATURE:
 193 <221> NAME/KEY: MOD_RES
 194 <222> LOCATION: (27)
 195 <223> OTHER INFORMATION: Ala or Lys
 197 <220> FEATURE:
 198 <221> NAME/KEY: MOD_RES
 199 <222> LOCATION: (28)
 200 <223> OTHER INFORMATION: Ala or Asn
 202 <220> FEATURE:
 203 <221> NAME/KEY: MOD_RES
 204 <222> LOCATION: (31)
 205 <223> OTHER INFORMATION: Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine
 206 N-alkylpentylglycine or N-alkylalanine
 208 <220> FEATURE:
 209 <221> NAME/KEY: MOD_RES
 210 <222> LOCATION: (36)..(38)
 211 <223> OTHER INFORMATION: Pro, homoproline, 3Hyp, 4Hyp, thioproline, N-alkylglycine
 212 N-alkylpentylglycine or N-alkylalanine
 214 <220> FEATURE:
 215 <221> NAME/KEY: MOD_RES
 216 <222> LOCATION: (39)
 217 <223> OTHER INFORMATION: Ser, Thr, Tyr, Pro, homoproline, 3Hyp, 4Hyp, thioproline,
 218 N-alkylglycine, N-alkylpentylglycine or N-alkylalanine
 220 <220> FEATURE:
 221 <223> OTHER INFORMATION: provided no more than three of Xaa3, Xaa5, Xaa6, Xaa8,
 222 Xaa10, Xaa11, Xaa12, Xaa13, Xaa14, Xaa15, Xaa16, Xaa17,
 223 Xaa19, Xaa20, Xaa21, Xaa24, Xaa25, Xaa26, Xaa27 or Xaa28
 224 are Ala; and the compound is not exendin-3 or exendin-4
 226 <220> FEATURE:
 227 <223> OTHER INFORMATION: this peptide may encompass 28-39 residues, wherein
 228 residues 1-28 are constant and residues 29-39 may vary
 229 in length according to the specification
 231 <400> SEQUENCE: 4

W--> 232 Xaa Xaa Xaa Gly Xaa Xaa

233	1	5	10	15								
235	Xaa	Ala	Xaa									
236			20		25				30			
238	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa						
239							35					

241 <210> SEQ ID NO: 5
 242 <211> LENGTH: 30
 243 <212> TYPE: PRT
 244 <213> ORGANISM: Artificial Sequence
 246 <220> FEATURE:
 247 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
 248 GLP-1 agonist
 250 <220> FEATURE:
 251 <223> OTHER INFORMATION: C-term may be amidated

Invalid
see item 5
On
error
summary
sheet.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003

TIME: 10:48:00

Input Set : A:\256-152div.txt

Output Set: N:\CRF4\09162003\J656093.raw

253 <400> SEQUENCE: 5
254 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
255 1 5 10 15
257 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
258 20 25 30
261 <210> SEQ ID NO: 6
262 <211> LENGTH: 28
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
268 GLP-1 agonist
270 <220> FEATURE:
271 <223> OTHER INFORMATION: C-term amidated
273 <400> SEQUENCE: 6
274 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
275 1 5 10 15
277 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
278 20 25
281 <210> SEQ ID NO: 7
282 <211> LENGTH: 28
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
288 GLP-1 agonist
290 <220> FEATURE:
291 <223> OTHER INFORMATION: C-term amidated
293 <400> SEQUENCE: 7
294 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
295 1 5 10 15
297 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
298 20 25
301 <210> SEQ ID NO: 8
302 <211> LENGTH: 28
303 <212> TYPE: PRT
304 <213> ORGANISM: Artificial Sequence
306 <220> FEATURE:
307 <223> OTHER INFORMATION: Description of Artificial Sequence: Exendin or
308 GLP-1 agonist
310 <220> FEATURE:
311 <223> OTHER INFORMATION: C-term amidated
313 <400> SEQUENCE: 8
314 His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
315 1 5 10 15
317 Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
318 20 25
321 <210> SEQ ID NO: 9
322 <211> LENGTH: 28

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003
TIME: 10:48:01

Input Set : A:\256-152div.txt
Output Set: N:\CRF4\09162003\J656093.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; Xaa Pos. 1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,19,20,21,22,23,24
Seq#:4; Xaa Pos. 25,26,27,28,29,30,31,32,33,34,35,36,37,38,39
Seq#:47; Xaa Pos. 31,36,37,38
Seq#:48; Xaa Pos. 36,37,38
Seq#:49; Xaa Pos. 31
Seq#:50; Xaa Pos. 31,36,37
Seq#:51; Xaa Pos. 31,36,37
Seq#:52; Xaa Pos. 31,36
Seq#:55; Xaa Pos. 6
Seq#:59; Xaa Pos. 10
Seq#:60; Xaa Pos. 22
Seq#:61; Xaa Pos. 23
Seq#:65; Xaa Pos. 31,36,37
Seq#:66; Xaa Pos. 19
Seq#:67; Xaa Pos. 17
Seq#:75; Xaa Pos. 29

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/656,093

DATE: 09/16/2003

TIME: 10:48:01

Input Set : A:\256-152div.txt

Output Set: N:\CRF4\09162003\J656093.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
M:341 Repeated in SeqNo=4
L:1131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:16
M:341 Repeated in SeqNo=47
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:32
L:1187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:16
L:1220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:16
M:341 Repeated in SeqNo=50
L:1253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:16
M:341 Repeated in SeqNo=51
L:1286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:16
M:341 Repeated in SeqNo=52
L:1354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:1439 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:1467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:16
L:1492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:16
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:16
M:341 Repeated in SeqNo=65
L:1635 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:1642 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:67
L:1673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:16
L:1878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:16